



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 6 Laboratory**

Environmental Services Branch  
10625 Fallstone Road, Houston, TX 77099  
Phone: (281)983-2100 Fax: (281)983-2248

**Final Analytical Report**

Site Name -----Oil Trust Fund  
Sample Collection Date(s)-- 09/15/10  
Contact----- Rich Mayer (6PD-F)  
Report Date-----09/23/10  
Project #----- 10REG280  
Work Order(s)-----1009039

**Analyses included in this report:**

LC DOSS

**Report Narrative**

DOSS recoveries for MS1 and MSD1 are not available due to an error in the sample spiking that caused additional surrogate spike to be added to these samples instead of DOSS spike. Good precision in the analysis was shown by the triplicate analysis of the sample 1009039-04, -04MS1 and -04MSD1 wherein all results for DOSS were non-detect.

The surrogate recovery results above the advisory recovery limit due to the additional surrogate spike added to the samples should not effect the sample results as DOSS was non-detect as mentioned above.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

\_\_\_\_\_  
Richard McMillin  
Region 6 Laboratory Manager

\_\_\_\_\_  
David Neleigh  
Region 6 Laboratory Branch Chief



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Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road  
Houston, Texas 77099

## Sample Receipt and Disposal

Site Name: Oil Trust Fund

Project Number: 10REG280

Data Management Coordinator: Christy Warren

\_\_\_\_\_  
Data Management Coordinator Signature

\_\_\_\_\_  
Date

Date Transmitted: \_\_\_\_/\_\_\_\_/\_\_\_\_

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren  
Data Management Coordinator  
Region 6 Laboratory  
6MD-HS

\_\_\_\_\_  
Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Please provide a reason for holding:



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**ANALYTICAL REPORT FOR SAMPLES**

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
T008-1313-100915-SW-06-1	1009039-01	Liquid	9/15/10 11:58	09/16/10 09:40
T008-R617-100915-SW-03-1	1009039-02	Liquid	9/15/10 11:17	09/16/10 09:40
T008-R620-100915-SW-01-1	1009039-03	Liquid	9/15/10 10:10	09/16/10 09:40
T008-R688-100915-SW-06-1	1009039-04	Liquid	9/15/10 9:01	09/16/10 09:40



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**DOSS by LC/MS/MS**

**Lab ID: 1009039-01**

**Station ID: T008-1313-100915-SW-06-1**

Batch: B0I2001

Date Collected: 09/15/10

Sample Type: Liquid

Sample Volume: 20 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	204		101	50-150	09/20/10	09/20/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diocetyl sulfosuccinate, sodium salt (577-11-7)	U		19.5	1	09/20/10	09/20/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.



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**DOSS by LC/MS/MS**

**Lab ID: 1009039-02**

**Station ID: T008-R617-100915-SW-03-1**

Batch: B0I2001

Date Collected: 09/15/10

Sample Type: Liquid

Sample Volume: 25 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	170		105	50-150	09/20/10	09/20/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	09/20/10	09/20/10

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**DOSS by LC/MS/MS**

**Lab ID: 1009039-03**

**Station ID: T008-R620-100915-SW-01-1**

Batch: B0I2001

Date Collected: 09/15/10

Sample Type: Liquid

Sample Volume: 20 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	218		108	50-150	09/20/10	09/20/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/20/10	09/20/10

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**DOSS by LC/MS/MS**

**Lab ID: 1009039-04**

**Station ID: T008-R688-100915-SW-06-1**

Batch: B0I2001

Date Collected: 09/15/10

Sample Type: Liquid

Sample Volume: 26 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	163		105	50-150	09/20/10	09/20/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	09/20/10	09/20/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.



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**DOSS by LC/MS/MS - Quality Control**

**Batch: B0I2001**

**Sample Type: Liquid**

**Blank (B0I2001-BLK1)**

Prepared: 9/20/2010 Analyzed: 9/20/2010

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	Limit Limits
<i>Surr: DOSS-D34</i>	200		202	99.0	50-150

**Blank (B0I2001-BLK1)**

Prepared: 9/20/2010 Analyzed: 9/20/2010

**Targets**

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit
Diethyl sulfosuccinate, sodium salt	U	20.0

**LCS (B0I2001-BS1)**

Prepared: 9/20/2010 Analyzed: 9/20/2010

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	Limit Limits
<i>Surr: DOSS-D34</i>	296		202	146	50-150

**LCS (B0I2001-BS1)**

Prepared: 9/20/2010 Analyzed: 9/20/2010

**Targets**

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC	Limit Limits
Diethyl sulfosuccinate, sodium salt	U	20.0	94.9	NR #	50-150





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**DOSS by LC/MS/MS - Quality Control**

**Batch: B0I2001**

**Sample Type: Liquid**

**Matrix Spike (B0I2001-MS1)**

**Source: 1009039-04**

Prepared: 9/20/2010 Analyzed: 9/20/2010

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	229		144	159 # 50-150

**Matrix Spike (B0I2001-MS1)**

**Source: 1009039-04**

Prepared: 9/20/2010 Analyzed: 9/20/2010

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Diocetyl sulfosuccinate, sodium salt	U		20.0	67.8		NR # 50-150

**Matrix Spike Dup (B0I2001-MSD1)**

**Source: 1009039-04**

Prepared: 9/20/2010 Analyzed: 9/20/2010

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	202		130	155 # 50-150

**Matrix Spike Dup (B0I2001-MSD1)**

**Source: 1009039-04**

Prepared: 9/20/2010 Analyzed: 9/20/2010

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD Limit
Diocetyl sulfosuccinate, sodium salt	U		20.0	61.2		NR # 50-150	# 30



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## CHAIN OF CUSTODY RECORD R06\_Deepwater\_Grand\_Isle

Contact: Kristie Warr  
Phone: 713.985.6636

No: T0033-100403-20100915-05

Airbill No:  
Lab: U.S. EPA Region 6 Laboratory  
Lab Phone: 281-983-2137

Lab #	Sample #	Analyses	Matrix	Collection Method	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	T008-1313-100915-SW-06-1	DOSS	Surface Water	Grab	9/15/2010 11:58	2	20 ml VOA	4 C	N
	T008-R617-100915-SW-03-1	DOSS	Surface Water	Grab	9/15/2010 11:17	2	20 ml VOA	4 C	N
	T008-R620-100915-SW-01-1	DOSS	Surface Water	Grab	9/15/2010 10:10	2	20 ml VOA	4 C	N
	T008-R688-100915-SW-06-1	DOSS	Surface Water	Grab	9/15/2010 09:01	6	20 ml VOA	4 C	N
									Y

Special Instructions:

### SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	9-15-10	<i>[Signature]</i>	9-16-10	9:40
	<i>[Signature]</i>	9-15-10	<i>[Signature]</i>	9-16-10	9:40
	<i>[Signature]</i>	9-16-10	<i>[Signature]</i>	9-16-10	9:40
	<i>[Signature]</i>	9-16-10	<i>[Signature]</i>	9-16-10	9:40
	<i>[Signature]</i>	9-16-10	<i>[Signature]</i>	9-16-10	9:40

*[Signature]*



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## Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.